

FIG. 2A

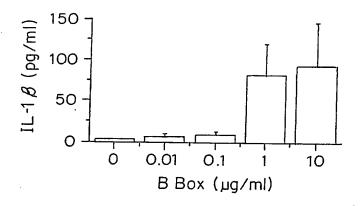


FIG. 2B

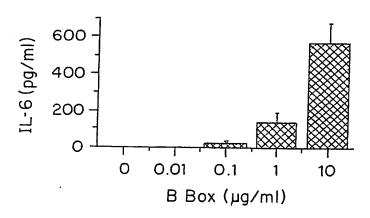


FIG. 2C

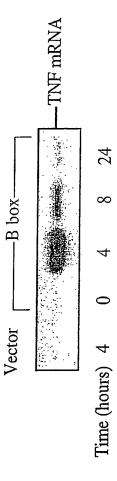


FIG. 2D

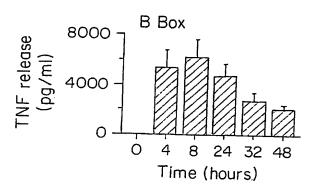


FIG. 2E

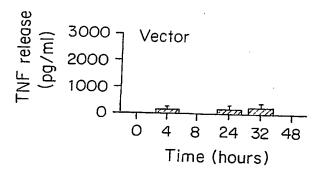


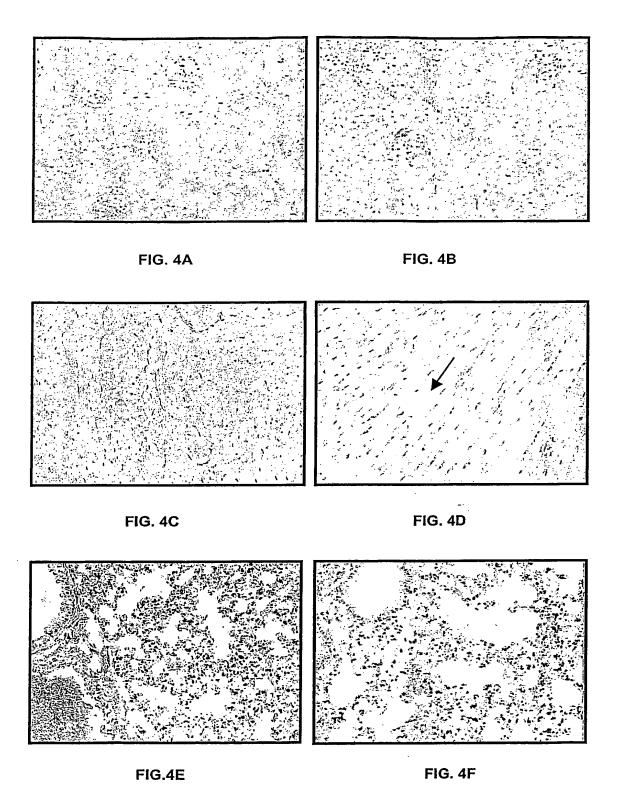
FIG. 2F

B box mutants	TNF release (pg/ml)
B box: 74 amino acids	5675±575
1-20	2100±756
16-35	100±10
30-49	120 <u>±</u> 75
45-64	100±36
60-74	100±20

FIG. 3

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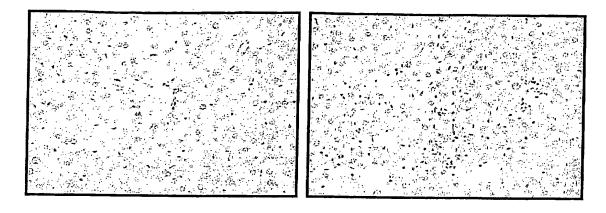


FIG. 4G FIG. 4H

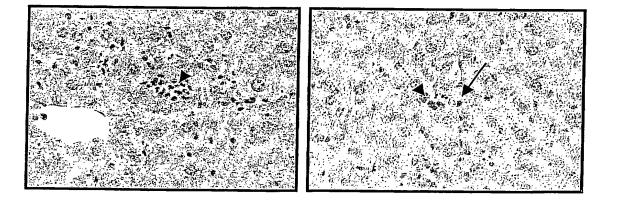


FIG. 4J FIG. 4J

FIG. 5A

SEQ ID NO:1 - Human HMG1 amino acid sequence 1 mgkgdpkkpr gkmssyaffv qtcreehkkk hpdasvnfse fskkcserwk tmsakekgkf 61 edmakadkar yeremktyip pkgetkkkfk dpnapkrpps afflfcseyr pkikgehpgl 121 sigdvakklg emwnntaadd kqpyekkaak lkekyekdia ayrakgkpda akkgyvkaek 181 skkkkeeeed eedeedeee edeededeee dddde

FIG. 5B SEQ ID NO:2 - Mouse and Rat HMG1 amino acid sequence 1 mgkgdpkkpr gkmssyaffv qtcreehkkk hpdasvnfse fskkcserwk tmsakekgkf 61 edmakadkar yeremktyip pkgetkkkfk dpnapkrpps afflfcseyr pkikgehpgl 121 sigdvakklg emwnntaadd kqpyekkaak lkekyekdia ayrakgkpda akkgvvkaek 181 skkkkeeedd eedeedeee eeededeee dddde

FIG. 5C

SEQ ID NO:3 - HUMAN HMG2 amino acid sequence 1 mgkgdpnkpr gkmssyaffv qtcreehkkk hpdssvnfae fskkcserwk tmsakekskf 61 edmaksdkar ydremknyvp pkgdkkgkkk dpnapkrpps afflfcsehr pkiksehpgl 121 sigdtakklg emwseqsakd kqpyeqkaak lkekyekdia ayrakgksea gkkgpgrptg 181 skkknepede eeeeeeded eeeededee

FIG. 5D

SEQ ID NO:4 - Human, mouse and rat HMG1 A box protein sequence 1 pdasvnfsef skkcserwkt msakekgkfe dmakadkary eremktyipp kget

FIG. 5E

SEQ ID NO:5 - Human, mouse and rat HMG1 B box protein sequence 1 napkrppsaf flfcseyrpk ikgehpglsi gdvakklgem wnntaaddkq pyekkaaklk 61 ekyekdiaa

FIG. 5F SEQ ID NO:6 - forward PCR primer for human HMG1 gatgggcaaaggagatcctaag.

FIG. 5G SEQ ID NO:7 - reverse PCR primer for human HMG1 gcggccgcttattcatcatcatcatcttc

FIG. 5H SEQ ID NO:8 - forward PCR primer for -C mutant of human HMG1 gatgggcaaaggagatcctaag

FIG. 51

SEQ ID NO:9 - reverse PCR primer for -C mutant of human HMG1 gcggccgctcacttgcttttttcagccttgac

FIG. 5]

SEQ ID NO:10 - forward PCR primer for A+B boxes mutant of human HMG1 gagcataagaagaagcaccca

FIG. 5K

SEQ ID NO:11 - reverse PCR primer for A+B boxes mutant of human HMG1 gcggccgc tcacttgcttttttcagccttgac

FIG. 5L

SEQ ID NO:12 - forward PCR primer for B box mutant of human HMG1 aagttcaaggatcccaatgcaaag

FIG. 5M

SEQ ID NO:13 - reverse PCR primer for B box mutant of human HMG1 gcggccgctcaatatgcagctatatccttttc

FIG. 5N

SEQ ID NO:14 - forward PCR primer for N'+A box mutant of human HMG1 gatgggcaaaggagatcctaag

FIG. 50

SEQ ID NO:15 - reverse PCR primer for N'+A box mutant of human HMG1 tcacttttttgtctcccctttggg

1 mgkgdpkkpr gkmssyaffv qtcreehkkk hpdasvnfse fskkcserwk tmsakekgkf	rat # P07155
1 mgkgdpkkpr gkmssyaffv qtcreehkkk hpdasvnfse fskkcserwk tmsakekgkf	mouse #AAA20508
1 mgkgdpkkpt gkmssyaffv qtcreehkkk hpdasvnfse fskkcserwk tmsakekgkf	human #AAA64970
A box	

61 edmakadkar yeremktyip pkgetkkkfk dpnapkrpps affifcseyr pkikgehpgl rat 61 edmakadkar yeremktyip pkgetkkkfk dpnapkrpps afflfcseyr pkikgehpgl mouse 61 edmakadkar yeremktyip pkgetkkkfk dpnapkrlps affifcseyr pkikgehpgl human B box

121 sigdvakklg emwnntaadd kqpyekkaak lkekyekdia ayrakgkpda akkgvvkaek rat 121 sigdvakklg emwnntaadd kqpyekkaak lkekyekdia ayrakgkpda akkgvvkaek mouse 121 sigdvakklg emwnntaadd kqpyekkaak lkekyekdia ayrakgkpda akkgvvkaek human

181 skkkkeeedd eedeedeese eesede dees dddde rat 181 skkkkeeedd eedeedeee eeeede deee dddde mouse 181 skkkkeeeed eedeedeee edeedeedeee dddde human

FIG. 6

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FIG. 7A

NG 000897 DNA (bases 150-797)

FIG. 7B

NG 000897 Protein

MGKGDPKKPT GKMSSYAFFV QTCREEHKKK HPDASVNFSE FSKKCSERWK TMSAKEKGKF EDMAKADKAR YEREMKTYIP PKGETKKKFK DPNAPKRLPS AFFLFCSEYR PKIKGEHPGL SIGDVAKKLG EMWNNTAADD KQPYEKKAAK LKEKYEKDIA AYRAKGKPDA AKKGVVKAEK SKKKKEEEED EEDEEDEEE EDDEDE

FIG. 7C

AF076674 DNA (bases 1-633)

FIG. 7D

AF076674 Protein

MGKGDPKKPR GKMSSYAFFV QTCREEHKKK HSDASVNFSE FSNKCSERWK TMSAKEKGKF EDMAKADKTH YERQMKTYIP PKGETKKKFK DPNAPKRPPS AFFLFCSEYH PKIKGEHPGL SIGDVAKKLG EMWNNTAADD KQPGEKKAAK LKEKYEKDIA AYQAKGKPEA AKKGVVKAEK SKKKKEEEED EEDEEDEEE DEEDEEDDDD E

FIG. 7E

AF076676 DNA (bases 1-564)

FIG. 7F

AF076676 Protein

MGKGDPKKPR GKMSSYAFFV QTCREECKKK HPDASVNFSE FSKKCSERWK AMSAKDKGKF EDMAKVDKDR YEREMKTYIP PKGETKKKFE DSNAPKRPPS AFLLFCSEYC PKIKGEHPGL PISDVAKKLV EMWNNTFADD KQLCEKKAAK LKEKYKKDTA TYRAKGKPDA AKKGVVKAEK SKKKKEEE

FIG. 7G

AC010149 DNA (bases 75503-76117)

FIG. 7H

AC010149 Protein

MDKADPKKLR GEMLSYAFFV QTCQEEHKKK NPDASVKFSE FLKKCSETWK TIFAKEKGKF EDMAKADKAH YEREMKTYIP PKGEKKKKFK DPNAPKRPPL AFFLFCSEYR PKIKGEHPGL SIDDVVKKLA GMWNNTAAAD KQFYEKKAAK LKEKYKKDIA AYRAKGKPNS AKKRVVKAEK SKKKKEEEED EEDEQEEENE EDDDK

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FIG. 7I

AF165168 DNA (bases 729-968)

ATGGGCAAAG GAGATCCTAA GAAGCCGAGA GGCAAAATGT CATCATGTGC ATTTTTTGTG CAAACTTGTT GGGAGGAGCA TAAGAAGCAG TACCCAGATG CTTCAATCAA CTTCTCAGAG TTTTCTCAGA AGTGCCCAGA GACGTGGAAG ACCACGATTG CTAAAGAGAA AGGAAAATTT GAAGATATGC CAAAGGCAGA CAAGGCCCAT TATGAAAGAG AAATGAAAAC CTATATACCC

FIG. 7J

AF165168 Protein

MGKGDPKKPR GKMSSCAFFV QTCWEEHKKQ YPDASINFSE FSQKCPETWK TTIAKEKGKF EDMPKADKAH YEREMKTYIP

FIG. 7K

XM_063129 DNA (bases 319-558)

AAACAGAGAG GCAAAATGCC ATCGTATGTA TTTTGTGTGC AAACTTGTCC GGAGGAGCGT AAGAAGAAAC ACCCAGATGC TTCAGTCAAC TTCTCAGAGT TTTCTAAGAA GTGCTTAGTG AGGGGGAAGA CCATGTCTGC TAAAGAGAAA GGACAATTTG AAGCTATGGC AAGGGCAGAC AAGGCCCGTT ACGAAAGAGA AATGAAAAACA TATATCCCTC CTAAAGGGGA GACAAAAAAA

FIG. 7L

XM 063129 Protein

KQRGKMPSYV FCVQTCPEER KKKHPDASVN FSEFSKKCLV RGKTMSAKEK GQFEAMARAD KARYEREMKT YIPPKGETKK

FIG. 7M

XM 066789 DNA (bases 1-258)

ATGGGCAAAA GAGACCCTAA GCAGCCAAGA GGCAAAATGT CATCATATGC ATTTTTTTGTG CAAACTGCTC AGGAGGAGCA CAAGAAGAAA CAACTAGATG CTTCAGTCAG TTTCTCAGAG TTTTCTAAGA ACTGCTCAGA GAGGTGGAAG ACCATGTCTG TTAAAGAGAA AGGAAAAATTT GAAGACATGG CAAAGGCAGA CAAGGCCTGT TATGAAAGAG AAATGAAAAA ATATCCCTAC TTAAAGGGGA GACAAAAA

FIG. 7N

XM_066789 Protein

MGKRDPKQPR GKMSSYAFFV QTAQEEHKKK QLDASVSFSE FSKNCSERWK TMSVKEKGKF EDMAKADKAC YEREMKIYPY LKGRQK

FIG. 70

AF165167 DNA (bases 456-666)

ATGGGCAAAG GAGACCCTAA GAAGCCAAGA GAGAAAATGC CATCATATGC ATTTTTTGTG CAAACTTGTA GGGAGGCACA TAAGAACAAA CATCCAGATG CTTCAGTCAA CTCCTCAGAG TTTTCTAAGA AGTGCTCAGA GAGGTGGAAG ACCATGCCTA CTAAACAGAA AGGAAAATTC GAAGATATGG CAAAGGCAGA CAGGGCCCAT A

FIG. 7P

AF165167 Protein

MGKGDPKKPR EKMPSYAFFV QTCREAHKNK HPDASVNSSE FSKKCSERWK TMPTKQKGKF EDMAKADRAH